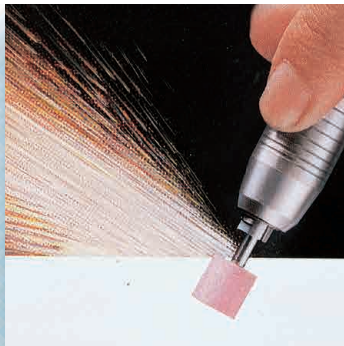


PRECISION PENCIL TYPE MICRO AIR GRINDER

IMPULSE Series

IMPULSE SERIES ◀◀



- ① 60,000 min⁻¹ NSP-601
- ② 40,000 min⁻¹ NA45-400 (60°)
- ③ 23,000 min⁻¹ NA45-230 (60°)
- ④ 23,000 min⁻¹ NA90-230 (90°)



- Best for high precision grinding, because IMPULSE has smooth rotational without the burs runout or vibration, even when motor speed is remarkable high.
- Incorporates a special vane air motor. Motor speed remains stable even under varying loads.
- Silencer on the exhaust air hose keeps the grinder very quiet.
- Use of high precision components in the IMPULSE provides excellent endurance to maintain micron specification.

Mounting & Dismounting Cutting Tool

Insert the spanner provided into the hole on the spindle and open or close the chuck with the Chuck Wrench to exchange the cutting tool.

Exchangeable Collet

Standard Size : $\phi 3.0$ mm (CHS-3.0)
Optional Collets : CHS group $\phi 0.8$ mm~ $\phi 3.175$ mm

Twist Free Hose

To prevent the twisting of hose, 360° Twist-Free Joint connects the motor and the hose.



Straight IMPULSE		
Code No.	1034	Model NSP-601

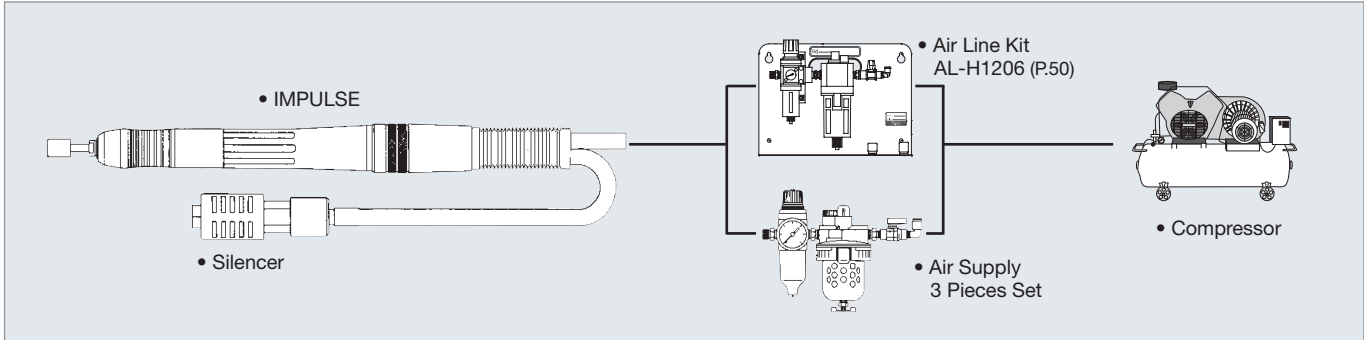
ON / OFF Ring

Easy to switch ON/OFF and to adjust motor speed, turning right & left.

Connecting Part To Air Line Kit

Built in air filter in air inlet coupling (the connection to air line kit).

Set-Up Drawing



■ Use Air Line Kit AL-H1206 or air supply 3 pieces set. (Air Filter, Air Regulator, Lubricator)

IMPULSE AIR GRINDER ◀◀

PRECISION AIR GRINDER

Straight/60° IMPULSE



Straight IMPULSE

60,000 min⁻¹

Code No.	1034
Model	NSP-601

Standard Size Collet

ø3.0 mm (CHS-3.0)

Optional Collets :
CHS group are shown in page (P.56)



- Straight type is designed for high speed precision grinding.
- The front part of the NSP-601 model is made of stainless steel ; the back portion of aluminum alloy.
- The safety design of clamping the chuck up to 29 mm maintains stable rotation of the cutting tool.
- The air motor is assembled with a special vane design which keeps constant speed under load providing stable grinding and polishing operation.

60° IMPULSE

40,000 min⁻¹

Code No.	1035
Model	NA45-400

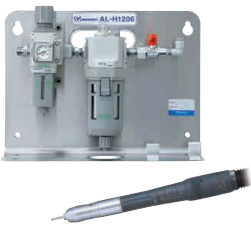
Standard Size Collet

ø3.0 mm (CHS-3.0)

Optional Collets :
CHS group are shown in page (P.56)

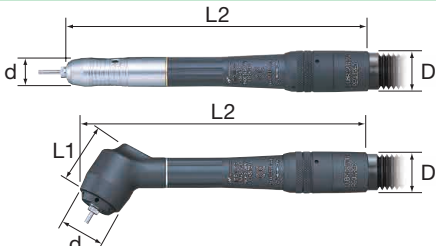


- Angled model housings are all aluminum alloy.
- Ideal for removing sharp edges at corners and surfaces difficult to reach with straight type.



Specifications
Air Consumption : 165 NL/min
Proper Air Pressure : 0.4~0.6 MPa
Inlet Air Hose Length : 1.5 m
Eraser Hose Length : 1.2 m

Standard Accessories
• Collet ø3.0 mm (CHS-3.0) : 1 pc.
• Hose (K-213) : 1.5 m • Silencer (K-208) : 1 pc.
• Spanner (8 x 5) : 1 pc. • Bar Wrench (K-212) : 1 pc.



Code No.	d	D	L1	L2	Weight	Speed	Collet
1034	ø17	ø23.9	—	168	165 g	60,000 min ⁻¹	ø0.8~ø3.175 mm
1035	ø28.6	ø23.9	39.6	161	210 g	40,000 min ⁻¹	CHS Group (P.56)

IMPULSE AIR GRINDER ◀◀

PRECISION AIR GRINDER

Super Cut IMPULSE



Exclusive Tools P.69 ~72

90° Super Cut IMPULSE

23,000 min⁻¹

Code No.	1036
Model	NA90-230

Standard Size Collet

ø3.0 mm (CHS-3.0)

Optional Collets :
CHS group are shown in page (P.56)



Code No.	Description	Package
42423	Mounted Points	1 pc.
64822	Rubber Pad	
64836	Cup Wheel	1 pc./pack
64837	Cup Wheel	
64172	Sand Paper Disk ø31 #120	
64175	Sand Paper Disk ø31 #320	2 pcs./pack
64177	Sand Paper Disk ø31 #600	
64179	Sand Paper Disk ø31 #1000	

▶ Mounted Points → NAKANISHI "POLISHING TOOLS" Catalog
▶ Disks → P.69~71

Exclusive Tools P.69 ~72



Please refer to next page.

60° Super Cut IMPULSE

23,000 min⁻¹

Code No.	1037
Model	NA45-230

Standard Size Collet

ø3.0 mm (CHS-3.0)

Optional Collets :
CHS group are shown in page (P.56)



Code No.	Description	Package
42423	Mounted Points	1 pc.
64822	Rubber Pad	
64836	Cup Wheel	1 pc./pack
64837	Cup Wheel	
64172	Sand Paper Disk ø31 #120	
64175	Sand Paper Disk ø31 #320	2 pcs./pack
64177	Sand Paper Disk ø31 #600	
64179	Sand Paper Disk ø31 #1000	

▶ Mounted Points → NAKANISHI "POLISHING TOOLS" Catalog
▶ Disks → P.69~71

Exclusive Tools P.69 ~72

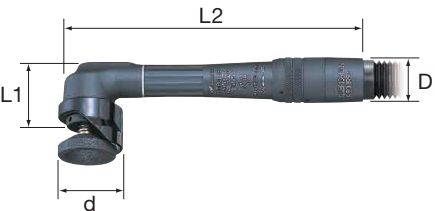


Please refer to next page.



Specifications
Air Consumption : 165 NL/min
Proper Air Pressure : 0.4~0.6 MPa
Inlet Air Hose Length : 1.5 m
Eraser Hose Length : 1.2 m

Standard Accessories
• Grindstone Axis (NCH-01) : 1 pc.
• Silencer (K-208) : 1 pc. • Spanner (8x5) : 1 pc.
• Bar Wrench (K-212) : 2 pcs. • Hose (K-213) : 1.5 m
• Allen Wrench (1.5 mm) : 1 pc.



Code No.	d	D	L1	L2	Weight	Speed	Collet
1036	ø33.5	ø23.9	34	156	190 g	23,000 min ⁻¹	ø0.8~ø3.175 mm
1037	ø33.5	ø23.9	39.6	163	190 g	23,000 min ⁻¹	CHS Group (P.56)

The Exchangeable Attachment Chart

Cup Wheel (Pre finishing)

Polishing Sander (Abrasive finishing)

Rubber Cup Wheel (Abrasive finishing)

Rubber Pad (Abrasive finishing)

Mounted Point (Grinding · Polishing)

Grindstone Axis NCH-01

Cup Wheel

Polishing Sander

Rubber Cup Wheel

Grindstone Axis NCH-01

Rubber Pad (64821, 64822)

Sand Paper Disk

Diamond Disk

Felt Disk (P.69~71)

Remove Head Cover

Collet ø3.0 CHS Group (P.56)

Mounted Point

Rubber Pad

- Disks are pasted on the Rubber Pad. (P.69~71)

ø20

M7 x 0.75

5 pcs./pack

Code No. 64821

23,000 min⁻¹ Max.

ø30

ø11

M7 x 0.75

5 pcs./pack

Code No. 64822

23,000 min⁻¹ Max.

Cup Wheel

- For pre finishing.

ø20

2.8

12

M7 x 0.75

12 pcs./pack

23,000 min⁻¹ Max.

ø30

4

10

M7 x 0.75

Grit	Grade Hardness	Code No. (ø20)	Code No. (ø30)
# 36	Standard	64830	64835
# 46	Hard	64831	64836
# 80	Standard	64832	64837
# 80	Hard		64838

Polishing Sander

- Abrasive Disk for high speed rotation is made from overlapping abrasive cloths.

ø30

M7 x 0.75

5 pcs./pack

23,000 min⁻¹ Max.

Grit	Code No.
# 80	64842
# 120	64844
# 180	64846
# 240	64847
# 400	64849

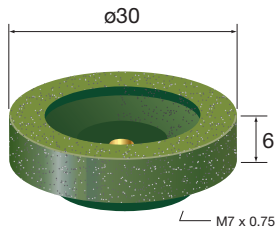
Convenient Assorted set for trial polishing
All grain size (5 types x each 1 pc.)
Total 5 pcs.-pack
Code No. 64850 5 pcs./pack

Rubber Cup Wheel

- Rubber Cup Wheel with high elasticity for grinding & polishing.



NA90-230



10 pcs./pack 23,000 min⁻¹ Max.

Grit	Color	Code No.
# 60	Brown	64851
# 80	Red	64852
# 120	Blue	64853
# 180	Olive	64854
# 220	Green	64855
# 320	Brown	64856

Convenient Assorted set for trial polishing
All grain size (6 types x each 2 pcs.)
Total 12 pcs.-pack

Code No. 64859 12 pcs./pack

Air Line Kit (Automatic Lubricating Device)

Code No.	4506
Model	AL-H1206

- Standard Accessories
- Air Pressure Gauge
 - Air Regulator
 - Air Filter
 - Lubricator
 - Air ON-OFF Valve
 - Piping Hose (K-275) : 2 m
 - Lubricating Oil (K-211) : 1 pc.



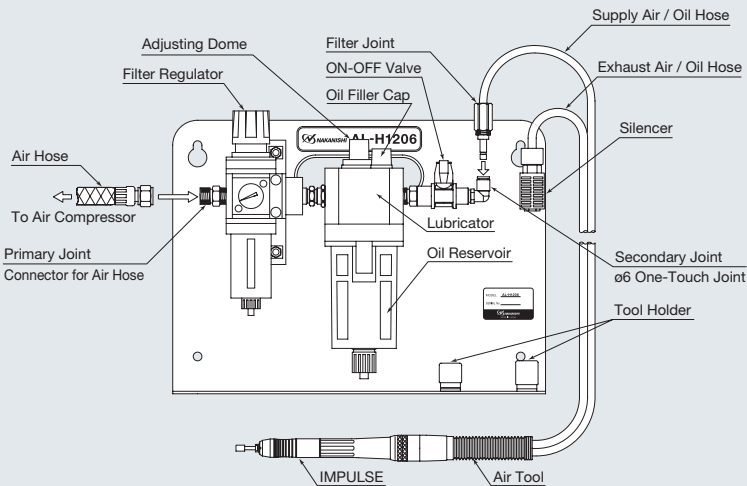
300(W) x 120(D) x 220(H) mm

- Supplies the smooth air flow and automatic lubrication for long life and the stable power.
- By adjustment of auto lubrication & air flow, this will extend the lifetime of air grinder.
- Best for grinding and polishing processes, AL-H1206 air line kit has a compact body with a carrying handle and holder to put the IMPULSE in.


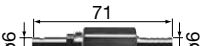
◆ Weight : 2.2 kg ◆ Filter Mesh : 5 μm

Piping Connection Diagram

- Use Air Line Kit AL-H1206 or air supply 3 pieces set. (Air Filter, Air Regulator, Lubricator)
- Coupler is not provided.



IMPULSE Series Spare Parts

Product	Description	Code No.	Model	Fit to
	Grindstone Axis (for Cup Wheel & Rubber Pad)	1045	NCH-01	IMPULSE
	Head Cover	1043	CNA	IMPULSE
	Hose 1.5 m	1038	K-213	IMPULSE
	Silencer Small (w/Metal Fittings)	1061	K-208	IMPULSE
	Spanner 8 x 5	2012	—	IMPULSE
	Bar Wrench (72 mm)	2013	K-212	IMPULSE
	Allen Wrench (1.5 mm)	—	—	IMPULSE Available in the market
	Lubricating Oil (70cc)	1057	K-211	For Air Line Kit AL-H1206
	Lubricating Oil (1L)	1058	K-202	
	Filter Joint (for ø6 Quick Disconnecting Joint)	2039	FJ-02	(For K-213 Hose)

PRESTO II

PRESTO II AIR TURBINE GRINDER ◀◀

ULTRA-HIGH SPEED AIR TURBINE GRINDER

PRESTO II

320,000 min⁻¹ ø1.6 mm Bur Only

- Ultra high speed 320,000 min⁻¹ non-lube air turbine.
- It is most suitable for precision processing works such as small precision parts, ceramic, correction of printed circuit board, etc. due to its non-lube handpiece.
- Flexible tubing ensures excellent workability reducing fatigue to the operator's hand for long continuous use.



PRESTO II Standard Set

Code No.	1125
Model	PR2-304S

- Standard Equipment
- Presto Handpiece (PR-304) : 1 pc.
 - Air Line Kit (PR2-06) : 1 pc.
 - Foot Controller (AFC-40) : 1 pc.
 - Handpiece Holder (Z014) : 1 pc.



Specifications	
Rotating Speed	: 320,000 min ⁻¹
Proper Air Pressure	: 0.25 MPa
Air Consumption	: 40 NL/min
Inside Diameter	: ø1.6 mm Bur Only
Filter Mesh	: 5 µm

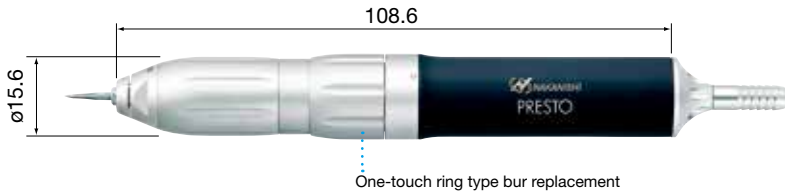
PRESTO Handpiece

320,000 min⁻¹

Code No.	1122
Model	PR-304

◆ Weight : 71 g (w/o Hose)

- Standard Accessories
- 2 m Hose



- Ultra-high speed no lube air turbine handpiece ideal for delicate processing application.
- Built-in dust protect mechanism developed by NAKANISHI ensures long durability.
- Chip air blows away the cutting powder and cools the cutting tool.
- Flexible tubing ensures excellent workability reducing fatigue to the operator's hand for long continuous use.

PRESTO II Spare Parts

Product	Description / Specifications	Code No.	Model
	PRESTO II Air Line Kit (w/o Lubricator / Filter Mesh 5 µm)	1126	PR2-06
	PRESTO II Cartridge	1120	PR-03
	Foot Controller	1124	AFC-40
	Piping Hose (ø6.0) 2 m Long	2041	K-237
	Air Turbine Hose (ø5.1) 2 m Long	2042	K-238
	Pin Spanner	2002	T-751

ø1.6 mm tools for PRESTO II
Please see the NAKANISHI "POLISHING TOOLS" Catalog



Electrically Driven

EmaxEVO
ESPERT

Air Driven

ROTUS
IMPULSE
PRESTO II

General Parts

GENERAL
PARTS

CAUTION

Exclusive Tools

EXCLUSIVE
TOOLS

INDEX

Protective
Equip.

Electrically Driven

EmaxEVO
ESPERT

Air Driven

ROTUS
IMPULSE
PRESTO II

General Parts

GENERAL
PARTS

CAUTION

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EXCLUSIVE
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Protective
Equip.

Precautions for using Nakanishi Tools

For safe use of the tools

- Please read operation manuals before using any tools.
- Please keep all operation manuals on hand for reference whenever necessary.

Caution Incorrect use of the tools, or ignoring ‘CAUTIONS for safety’ described in the operating manuals, could cause fatal or serious bodily injury.

CAUTIONS

Always use safety glasses, mask, face guard for your safety.

Fasten the collet firmly.
Make sure the tool is fully installed in the collet to avoid tool slippage.

Do not touch the tools when in operation.
Make sure the work area is neat and there is sufficient light.

Do not use the tool where flammable liquids or gases exist.

Start at low speed and increase gradually to insure safe work.
This is particularly important for the use of new tools, large cutting tools and elastic tools such as rubber grindstone, sander and brush tools.

Do not leave operating tools.
Confirm that the tool has stopped completely after switching off.

Keep the tools and products in a cool, dry place.

Select proper tools and products for your application.
Select tools carefully considering the performance of the tools, work procedure and type/shape of the material.

Check the tools carefully before use.
Confirm that the tools are free of chips, cracks, splits, scratches, irregular bondings, and out of round shanks, etc.

Stop grinding or polishing immediately whenever unusual sounds, vibrations, or wear are found.
Restart the work only after the problem is found and corrected.

Only use attachments, parts, consumable articles and accessories produced by NAKANISHI.

Do not wear loose clothing and/or accessories that may be caught in machinery.
Long hair should be secured prior to machine operation.

Check all tools carefully before use.
Clean the inside of the collet and tool shank, chips or fine metals inside the collet could cause tool slippage and result in damage to machinery or bodily injury.

Do not apply high pressure to or pry with the tools.
This can break and/or bend the tools. Use the tools within their design limitation. Excessive pressure will decrease the efficiency of your work and cause excessive wear of the tools.

The tools should be used by taking care of the overhang and below maximum allowable speed.
The catalogue shows the maximum allowable speed at 13 mm overhang (distance between the face of the collet and the top of the tool shank).

Overhang	Maximum allowable speed (min ⁻¹)
Less than 13 mm	Shown in the catalogue (A)
Less than 20 mm	(A) x 0.5
Less than 25 mm	(A) x 0.3
Less than 50 mm	(A) x 0.1

Symbols used in NAKANISHI Tools Catalogue

	<p>Shank Diameter</p> <p>Shows shank diameter of the tools. Nakanishi produces tools with several shank diameters.</p> <p>* Nakanishi micro grinders utilize a collet system, which insures maximum precision. Therefore, please use the collet that best corresponds to the tool shank diameter.</p>
	<p>Standard Package</p> <p>One package is the minimum shipping unit. This number shows the number of pieces in the standard package (bag, box and etc.). Please order the number of packages needed for the desired quantity.</p>
	<p>Maximum allowable speed</p> <p>Do not exceed the maximum allowable tool speed. For your safety, use the tools below the indicated allowable speed. Start at low speed and increase gradually to insure safety. The preceding is particularly important for the use of new tools and machines.</p> <p>* Maximum allowable speed assumes an overhang of less than 13mm. Decrease speed if the overhang is more than 13mm.</p> <p>Refer to “Precautions for using Nakanishi Tools” on the next page.</p> <p>* Check the tools and machinery for mechanical defects prior to each use.</p>
	<p>Grit</p> <p>This shows grain size of various grinding tools.</p> <p>Rough Cutting..... 46, 54, 60, 70, 80, 90</p> <p>Medium Cutting..... 100, 120, 150, 180</p> <p>Pre Finishing..... 220, 240, 280, 320, 400</p> <p>Finishing..... 500, 600, 700, 800, 1000</p> <p>Fine Finishing and Mirror Polishing..... 1200, 1500, 1800, 2000, 3000, 4000, 6000, 8000</p>

Code No. **62801~**

NAKANISHI's EXCLUSIVE TOOLS

Electroplated Diamond File

Flat taper		Thickness 1.4	0.5 mm # 200 62801	0.4 mm # 400 62802	0.35 mm # 600 62803
Flat taper		Thickness 1.4	0.5 mm # 200 62805	0.4 mm # 400 62806	0.35 mm # 600 62807
Flat		1.5	# 150 62811	# 200 62812	# 400 62813
Flat (Single-side electroplating)		1.2	# 100 62814		
Flat		1.4	# 150 62815	# 200 62816	# 400 62817
Flat (Single-side electroplating)		1	# 150 62821	# 200 62822	# 400 62823
Flat (Single-side electroplating)		1.5	# 150 62825	# 200 62826	# 400 62827

End Code number on each page

Code number (Order number)

Standard package quantity

Shank diameter of the tool

Maximum allowable speed

Total length of the tool (mm)

Note : Specifications may be changed without notice. Colors of the tools in this catalogue may not be the same as actual colors due to printing limitations.

P. 63

P. 64

NAKANISHI's EXCLUSIVE TOOLS

SHANK 3.0

1 pc./pack Electroplated Diamond File

Flat taper		t	Grit	
		0.5 mm	# 200	62801
		0.4 mm	# 400	62802
Flat taper		0.5 mm	# 200	62805
		0.4 mm	# 400	62806
		0.35 mm	# 600	62807
Flat			# 150	62811
			# 200	62812
			# 400	62813
Flat (Single side electroplating)			# 100	62814
Flat			# 150	62815
			# 200	62816
			# 400	62817
*62815 is thickness 1.4mm.				
Flat (Single side electroplating)			# 150	62821
			# 200	62822
			# 400	62823
Flat (Single side electroplating)			# 150	62825
			# 200	62826
			# 400	62827

Angular		Grit	
		# 150	62831
		# 200	62832
Round		# 100	62840
		# 150	62841
		# 200	62842
Round		# 150	62845
		# 200	62846
		# 400	62847
Round		# 150	62851
		# 200	62852
		# 400	62853
Round taper		# 150	62855
		# 200	62856
		# 400	62857
Half-round		# 150	62865
		# 200	62866
		# 400	62867
Half-round		# 150	62871
		# 200	62872
		# 400	62873
Triangular		# 150	62881
		# 200	62882
		# 400	62883

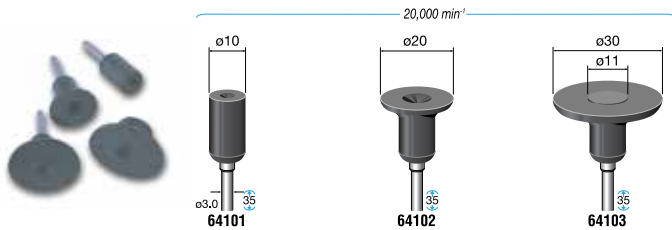
Exclusive Tools of "60° & 90° ANGLE"



Special tools for Nakanishi Micro-grinder "Angle Attachment". Highly efficient for grinding, polishing, finishing, etc.

SHANK 3.0

5 pcs./pack Special Rubber Pad For Abrasive and Felt Disks



100 pcs./pack Sand Paper Disk

Cloth Type

- For Metals ... Both for dry and wet finishing (Adhesive is resistant to water and oil)

For Metals	Grit	11	21	31
	# 60	64111	64121	64141
	# 80	64112	64122	64142
	# 120	64113	64123	64143
	# 180	64114	64124	64144
	# 240	64115	64125	64145
	# 320	64116	64126	64146
	# 400	64117	64127	64147
	# 600	64118	64128	64148
	# 800	64119	64129	64149
	# 1,000	64120	64130	64150
	Adhesive Back			

Paper Type

- For Metals ... Both for dry and wet finishing (Adhesive is resistant to water and oil)

For Metals (Black)	Grit	11	21	31
	# 80	64131	64151	64171
	# 120	64132	64152	64172
	# 180	64133	64153	64173
	# 240	64134	64154	64174
	# 320	64135	64155	64175
	# 400	64136	64156	64176
	# 600	64137	64157	64177
	# 800	64138	64158	64178
	# 1,000	64139	64159	64179
	# 1,500	64140	64160	64180
	Adhesive Back			

Paper Type

- Dry type ... For Metal, Woodwork, Paint, Putty polishing, Dry use

For Dry type (White)	Grit	11	21	31
	# 80	64201	64211	64221
	# 120	64202	64212	64222
	# 180	64203	64213	64223
	# 240	64204	64214	64224
	# 320	64205	64215	64225
	# 400	64206	64216	64226
	# 600	64207	64217	64227
	Adhesive Back			

NAKANISHI's EXCLUSIVE TOOLS

100 pcs./pack Zirconium Disk

- Best for finishing aluminum, stainless steel, copper alloy, brass, etc.

Grit	11	21	31
# 60	64251	64261	64271
# 80	64252	64262	64272
# 120	64253	64263	64273
# 150	64254	64264	64274
Adhesive Back			

20 pcs./pack Fiber Disk

- Soft finishing can be done on flat & curved surfaces, due to superior flexibility.

Grit	Color	11	21	31
# 120	Brown	64281	64291	64301
# 240	Violet	64282	64292	64302
# 320	Red Brown	64283	64293	64303
# 600	Dark Blue	64284	64294	64304
# 800	Gray	64285	64295	64305
# 1,000	Orange	64286	64296	64306
*Thickness 3 mm				Adhesive Back

20 pcs./pack Felt Disk

- Ideal for finishing using abrasives and diamond compounds.

Description	11	21	31
Soft Type Felt Disk (1mm thickness)	64331	64332	64333
Soft Type Felt Disk (2mm thickness)	64335	64336	64337
Adhesive Back			

20 pcs./pack Felt Disk Chromium Oxide (Blue Rouge) Embedded Type.

- Useful for speedy finishing because of Chromium Oxid (Blue Rouge) Embedded.

Description	11	21	31
Felt Disk Chromium Oxide (Blue Rouge) Embedded Type. (2mm thickness)	64341	64342	64343
Adhesive Back			

20 pcs./pack Rubber Points Disk

- Best for coarse finishing, pre-finishing with great polishing power.

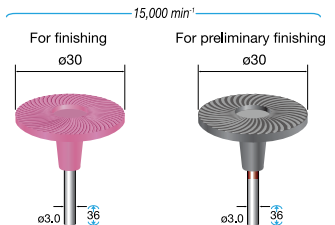
Grit	Color	20	30
# 60	Brown	64391	64401
# 80	Red	64392	64402
# 120	Dark Green	64393	64403
# 180	Olive	64394	64404
# 220	Green	64395	64405
# 320	Brown	64396	64406
*Thickness 3 mm			
Adhesive Back			

SHANK 3.0

5 pcs./pack Mounted Rubber Disks (Rubber Pad Integration)

- Moderately hard abrasive grain have great polishing ability.

For finishing			
Grit	Color	WA	GC
# 80	Pink	64411	—
# 80	Purple	—	64421
# 120	Blue	64412	64422
# 180	Yellow	64413	—
# 180	Green	—	64423
# 220	Green	64414	64424
# 320	Purple	64415	64425
# 500	Orange	64416	—
# 500	Brown	—	64426



For preliminary finishing (Fast grinding)		
Grit	Color	WA
# 80	Black (Red Line)	64431
# 120	Black (Blue Line)	64432

1 pc./pack Diamond Disk (Fully Electroplated Type)

- Superior in sharpness and durability.

Grit	11	21	31
# 100	64451	64461	64471
# 140	64452	64462	64472
# 200	64453	64463	64473
# 280	64454	64464	64474
# 400	64455	64465	64475
# 600	64456	64466	64476
# 800	64457	64467	64477
# 1,000	64458	64468	64478
Adhesive Back			

1 pc./pack Diamond Disk (Dot Electroplated Type, Wet Type)

- Electroplated nickel-alloy pellet is strongly adhered to resin base.

Grit	Color	11	21	31
# 60	Green	64501	64511	64521
# 120	Black	64502	64512	64522
# 200	Red	64503	64513	64523
# 400	Yellow	64504	64514	64524
# 800	Gray	64505	64515	64525
Adhesive Back				

NAKANISHI's EXCLUSIVE TOOLS

3 pcs./pack Resin Bond Diamond Disk Star Pattern

Star Pattern

Grit	ø11	ø21	ø31
# 80	64531	64541	64551
# 120	64532	64542	64552
# 180	64533	64543	64553
# 240	64534	64544	64554
# 400	64535	64545	64555
# 600	64536	64546	64556
# 800	64537	64547	64557
# 1,000	64538	64548	64558
# 2,000	64539	64549	64559

Adhesive Back

*Patterns maybe changed without notice

3 pcs./pack Lapping Film Disk Diamond Abrasive

Diamond Film (Diamond)

Grit	Color	ø11	ø21	ø31
# 400	Ivory	64601	64606	64611
# 800	Ivory	64602	64607	64612
# 1,500	Ivory	64603	64608	64613
# 3,000	Ivory	64604	64609	64614

Adhesive Back

50 pcs./pack Lapping Film Disk WA Abrasive

Aramid Film (WA)

Grit	Color	ø11	ø21	ø31
# 320	Pink	64621	64626	64631
# 600	Green	64622	64627	64632
# 1,000	Orange	64623	64628	64633
# 1,500	Olive	64624	64629	64634
# 3,000	Violet	64625	64630	64635

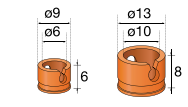
Adhesive Back

SHANK ø3.0 Lap Ring



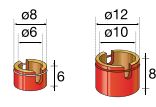
• Plastic and brass lapping rings for use with abrasive and diamond compounds.

10 pcs./pack Replacement Plastic Ring



64713 64717

5 pcs./pack Replacement Brass Ring



64723 64727

*Do not use the same ring for different abrasive compound grits.

1 pc./pack Replacement Holder

For internal diameter ø6 mm

For internal diameter ø10 mm

64731 64732

Exclusive Tools of "90° MINI ANGLE TYPE ATTACHMENT"



Steel cutters for radius grinding of deep cross holes for "Mini-Angle attachment". Ideal for radius grinding of holes or removing burrs from cross jigs, precision parts and inside surfaces of pipes.



MINI ANGLE TYPE Attachment (Very Small Head)

MINI ANGLE TYPE Attachment

SHANK ø1.6 Steel Cutters For Deep Cross Hole Finishing

1 pc./pack Diamond Coated Burs For Deep Cross Hole Finishing



SHANK ø1.6 Diamond and CBN Coated Burs For Deep Cross Hole Finishing

1 pc./pack Diamond and CBN Coated Burs For Deep Cross Hole Finishing

Diamond

Grit	ø1.6	ø2.5	ø3	ø4
# 11131	64801	64802	64803	64804
# 11132	64805	64806	64807	64808
# 11133	64809	64810	64811	64812

5 pcs./pack Diamond and CBN Coated Burs For Deep Cross Hole Finishing

Diamond

Grit	ø1.6	ø2.5	ø3	ø4	ø5	ø6
# 11151	64901	64902	64903	64904	64905	64906
# 11152	64907	64908	64909	64910	64911	64912
# 11153	64913	64914	64915	64916	64917	64918
# 11154	64919	64920	64921	64922	64923	64924
# 11155	64925	64926	64927	64928	64929	64930
# 11156	64931	64932	64933	64934	64935	64936

CBN

Grit	ø1.6	ø2.5	ø3	ø4	ø5	ø6
# 11161	64937	64938	64939	64940	64941	64942
# 11162	64943	64944	64945	64946	64947	64948
# 11163	64949	64950	64951	64952	64953	64954
# 11164	64955	64956	64957	64958	64959	64960
# 11165	64961	64962	64963	64964	64965	64966
# 11166	64967	64968	64969	64970	64971	64972

*11165 is Cut Length 1.4mm.

NAKANISHI's EXCLUSIVE TOOLS

Exclusive Tools of "IMPULSE"



Special tools for Nakanishi Micro-grinder "IMPULSE". Excellent for grinding or polishing flat surfaces, edges with Nakanishi's high-power air grinder.



90° ANGLE IMPULSE
· NA90-230



60° ANGLE IMPULSE
· NA45-230

5 pcs./pack Special Rubber Pad for Disk Abrasives

23,000 min⁻¹

ø20 M7 x 0.75 64821

ø30 M7 x 0.75 64822

12 pcs./pack Cup Wheel

23,000 min⁻¹

ø20 M7 x 0.75 64830 64835

ø30 M7 x 0.75 64832 64837

Grit	Grade Hardness	ø20	ø30
# 36	Standard	64830	64835
# 46	Hard	64831	64836
# 80	Standard	64832	64837
# 80	Hard	—	64838

5 pcs./pack Polishing Sander

• Abrasive Disk for high speed rotation is made from overlapping abrasive cloths.

23,000 min⁻¹

ø30 M7 x 0.75

Grit	Color
# 80	64842
# 120	64844
# 180	64846
# 240	64847
# 400	64849

• Convenient Assorted set for trial polishing
All grain size (5 types x each 1 pc.)
Total 5 pcs.-pack 64850

10 pcs./pack Rubber Cup Wheel

• Rubber Cup Wheel with high elasticity for grinding & polishing.

23,000 min⁻¹

ø30 M7 x 0.75

Grit	Color	
# 60	Brown	64851
# 80	Red	64852
# 120	Blue	64853
# 180	Olive	64854
# 220	Green	64855
# 320	Brown	64856

• Convenient Assorted set for trial polishing
All grain size (6 types x each 2 pcs.)
Total 12 pcs.-pack 64859

Exclusive Tools of "FINE BELT SANDER"



FINE BELT SANDER Attachment

30 pcs./pack Abrasive Belts

• High Quality Abrasive Belts are superior in grinding & durability.

For Grinding or Polishing of Metals (Length 300 mm)

Grit	W = 4 mm	W = 6 mm	W = 8 mm
# 80	64901	64911	64921
# 120	64902	64912	64922
# 180	64903	64913	64923
# 240	64904	64914	64924
# 320	64905	64915	64925
# 400	64906	64916	64926
# 600	—	—	64927
# 800	—	—	64928

• Assorted set for preliminary finishing (● Mark)
Grain size (4 types x each 10 pcs.), W = 8 mm
Total 40 pcs.-pack 64931

• Assorted set for finishing (● Mark)
Grain size (4 types x each 10 pcs.), W = 8 mm
Total 40 pcs.-pack 64932

For Woodwork (Length 300 mm)

Grit	8 mm Width
# 80	64941
# 120	64942
# 240	64943

• Assorted set for woodwork
All grain size (3 types x each 10 pcs.)
Total 30 pcs.-pack 64955